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- (54) Title: REVERSIBLE THERMOCHROMIC SYSTEMS

(57) Abstract: The present invention provides a reversible thermochromic system that is a two-component system based on an electron donating compound (color former) and an electron accepting compound (developer). A temperature increase to the melting point of the developer causes the system to change from a colorless state to a colored state and a temperature drop below the recrystallization temperature of the developer causes the system to change from the colored state to the colorless state. The thermochromic system of the present invention is applicable to various types of inks, such as a flexographic printing ink, a screen printing ink, a lithographic printing ink, and an intaglio printing ink. The invention also provides a method for preparing the thermochromic system of the present invention.